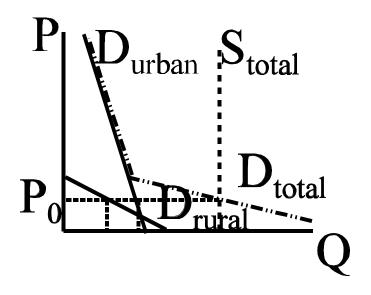
I. Slavery and Southern Economic Development (more)

Wealth
Economic growth
Responses to price signals

People Crops Industries and urban/rural



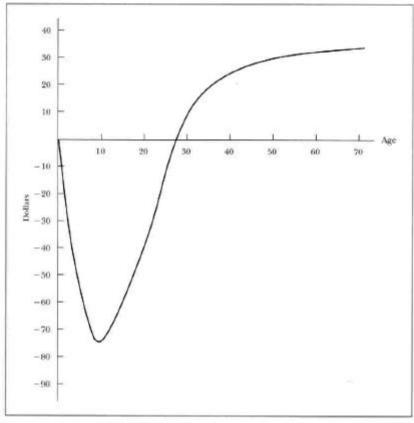
II. Slaves lives

A. exploitation

Life-time earnings

Average Accumulated Value (Discounted to Birth) of Income Appropriated from Slaves (1850 dollars)

The chart shows the cumulative value of the surplus an average slave earned over his or her lifetime. Note that owners begin to get back more than they put into a slave at about age nine. Sometime in the slave's early twenties the owner breaks even on the investment, as the slave's carnings discounted back to birth equal the slave's discounted rearing cost. Fogel and Engerman guess that around age fifty slave earnings again fall to about the level of maintenance costs. By this point, the cumulative value, discounted back to birth, a net slave earnings equals a little more than \$30. Hence the argument that at birth a slave is worth about \$30.



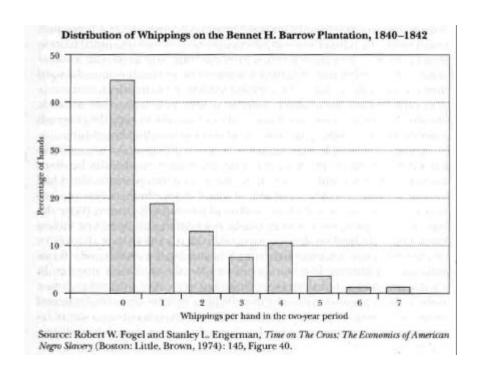
Source: Robert Fogel and Stanley Engerman, Time on the Cross (Boston: Little, Brown, 1974): 154

Rate of exploitation

	All Slave Farms	Large	All Slave	d Engerman Large
	1 di ilis	Plantations	Farms	Plantations
\$85.76	\$62.46	\$78.78	\$73.98	\$85.80
30.00	28.95	32.12	34.13	42.99
55.76	33.51	46.66	39.85	42.81
	30.00	30.00 28.95 55.76 33.51	30.00 28.95 32.12 55.76 33.51 46.66	30.00 28.95 32.12 34.13 55.76 33.51 46.66 39.85

Sources: Richard K. Vedder, "The Slave Exploitation (Expropriation) Rate," Explorations in Economic History 12 (1975): 455; Roger Ranson and Richard Sutch, One Kind of Freedom (Cambridge, England: Cambridge University Press, 1977): 203–12, reprinted by permission of Cambridge University Press; Robert W. Fogel and Stanley L. Engerman, Time on the Cross: Evidence and Methods (Boston: Little, Brown, 1974): 159.

B. Reward v. Punishment

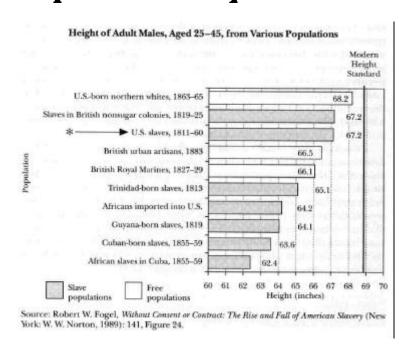


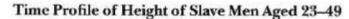
B. care and feeding

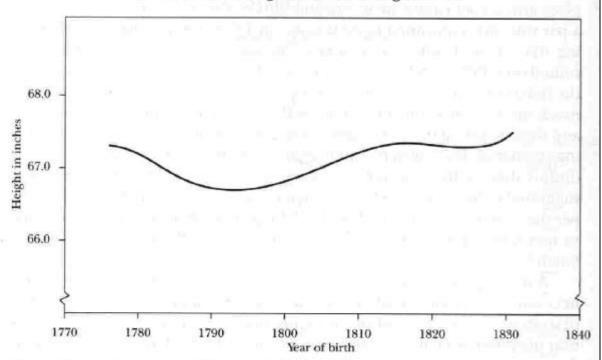
	A Comp			
		Description I		
	Least-Cost Diet	Estimate	Sutch Estimate	"Standard Ratio
Pork	_	0.31	0.53	0.50
Beef	Printing Hallmin	0.15	0.10	Manual September 1
Mutton	_	0.01		
Butter	_	0.01	0.01	
Milk	0.60	0.60	0.41	10 -:
Sweet potatoes	0.25	1.12	0.72	1.4-11.34(47)
Irish potatoes	_	0.08	0.06	- 1/1 TO 100 TO
Cowpeas	0.58	0.35	0.12	FOR STREET STREET, STR
Corn	1.74	1.78	2.23	2.00
Wheat	_	0.12	0.12	Well to Table
Cost per day (cents)	4.4	8.2	8.7	5.2

Source: Charles Kahn, "A Linear Programming Solution to the Slave Diet," in Without Consent or Conti Technical Papers Volume II, ed. Robert W. Fogel et al. (New York: W. W. Norton, 1992): 529, Table 25.3.

"Ample – but adequate?"

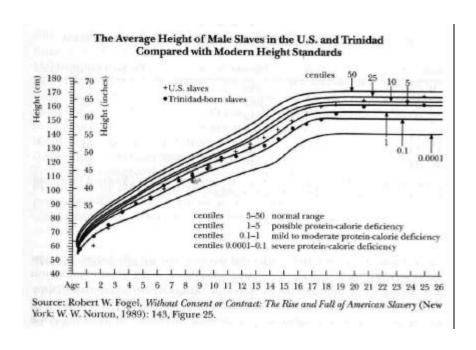




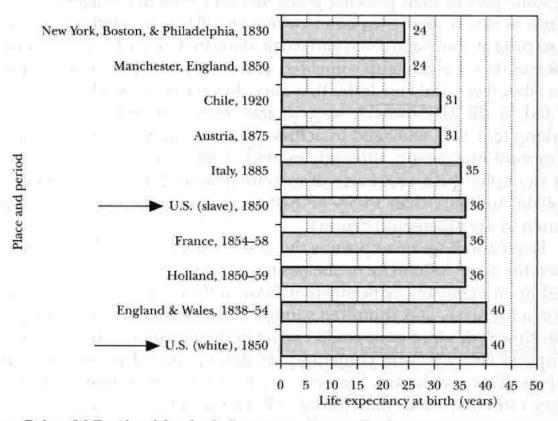


Source: Robert A. Margo and Richard H. Steckel, "The Heights of American Slaves: New Evidence on Slave Nutrition and Health," Social Science History 6 (1982): 523.

C. health and longevity







Source: Robert W. Fogel and Stanley L. Engerman, Time on The Cross: The Economics of American Negro Slavery (Boston: Little, Brown, 1974): 125, Figure 36.

Mortality Rates per Thousand for Slaves and the Antebellum Population

Age	Slaves	Entire United States		
0	350	179		
1-4	201	93		
5-9	54	. 28		
10-14	37	19		
15-19	35	28		
20-24	40	39		

Source: Richard H. Steckel, "Dimensions and Determinants of Early Childhood Health and Mortality among American Slaves," Social Science History 10 (1986): 428.